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## SEQUENCE LISTING

<110> Yissum Research Development Company of the Hebrew  
University of Jerusalem  
Ben-Gurion University of the Negev Research and  
Development Authority  
MANDELBOIM, Ofer  
PORCADOR, Angel

<120> PEPTIDES DERIVED FROM NATURAL CYTOTOXICITY RECEPTORS AND METHODS  
OF USE THEREOF

<130> NAP/003/PCT

<140> PCT/IL2004  
<141> 2004-11-24

<150> US 60/524,648  
<151> 2003-11-25

<160> 30

<170> PatentIn version 3.3

<210> 1  
<211> 23  
<212> PRT  
<213> Homo sapiens

<220>  
<221> PEPTIDE  
<222> (1)..(23)  
<223> amino acid residues 153-175 of human NKp46

<400> 1

Phe Leu Leu Leu Lys Glu Gly Arg Ser Ser His Val Gln Arg Gly Tyr  
1 5 10 15

Gly Lys Val Gln Ala Glu Phe  
20

<210> 2  
<211> 20  
<212> PRT  
<213> homo sapiens

<220>  
<221> PEPTIDE  
<222> (1)..(20)  
<223> aa 153-172 of NKp46 (SEQ ID NO:5 herein)

<220>  
<221> PEPTIDE  
<222> (1)..(20)  
<223> aa residues 153-172 of human NKp46 (SEQ ID NO:5 herein)

<400> 2

Phe Leu Leu Leu Lys Glu Gly Arg Ser Ser His Val Gln Arg Gly Tyr  
1 5 10 15

Gly Lys Val Gln

20

<210> 3  
 <211> 28  
 <212> PRT  
 <213> homo sapiens

<220>  
 <221> PEPTIDE  
 <222> (1)..(28)  
 <223> derived from NKp30 amino acids 56-83

<220>  
 <221> PEPTIDE  
 <222> (1)..(28)  
 <223> amino acid residues 57-84 derived from human NKp30

<400> 3

Arg Asp Glu Val Val Pro Gly Lys Glu Val Arg Asn Gly Thr Pro Glu  
 1 5 10 15

Phe Arg Gly Arg Leu Ala Pro Leu Ala Ser Ser Arg  
 20 25

<210> 4  
 <211> 20  
 <212> PRT  
 <213> homo sapiens

<220>  
 <221> PEPTIDE  
 <222> (1)..(20)  
 <223> corresponds to amino acids 56-75 of NKp30

<220>  
 <221> PEPTIDE  
 <222> (1)..(20)  
 <223> amino acids residues 57-76 of human NKp30

<400> 4

Arg Asp Glu Val Val Pro Gly Lys Glu Val Arg Asn Gly Thr Pro Glu  
 1 5 10 15

Phe Arg Gly Arg  
 20

<210> 5  
 <211> 24  
 <212> PRT  
 <213> homo sapiens

<220>  
 <221> PEPTIDE  
 <222> (1)..(24)  
 <223> amino acids 61-80 of NKp44

<220>  
 <221> PEPTIDE

<222> (1)..(24)  
 <223> amino acid residues 51-74 of human Nkp44

<400> 5

Lys Lys Gly Trp Cys Lys Glu Ala Ser Ala Leu Val Cys Ile Arg Leu  
 1 5 10 15

Val Thr Ser Ser Lys Pro Arg Thr  
 20

<210> 6  
 <211> 304  
 <212> PRT  
 <213> homo sapiens

<300>  
 <308> NCBI/CAA04714  
 <309> 1998-09-22  
 <313> (1)..(304)

<400> 6

Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser  
 1 5 10 15

Gln Arg Ile Ser Ala Gln Gln Gln Thr Leu Pro Lys Pro Phe Ile Trp  
 20 25 30

Ala Glu Pro His Phe Met Val Pro Lys Glu Lys Gln Val Thr Ile Cys  
 35 40 45

Cys Gln Gly Asn Tyr Gly Ala Val Glu Tyr Gln Leu His Phe Glu Gly  
 50 55 60

Ser Leu Phe Ala Val Asp Arg Pro Lys Pro Pro Glu Arg Ile Asn Lys  
 65 70 75 80

Val Lys Phe Tyr Ile Pro Asp Met Asn Ser Arg Met Ala Gly Gln Tyr  
 85 90 95

Ser Cys Ile Tyr Arg Val Gly Glu Leu Trp Ser Glu Pro Ser Asn Leu  
 100 105 110

Leu Asp Leu Val Val Thr Glu Met Tyr Asp Thr Pro Thr Leu Ser Val  
 115 120 125

His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr Cys  
 130 135 140

Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly Arg  
 145 150 155 160

Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe Pro  
 165 170 175

Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe Gly  
180 185 190

Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys Leu  
195 200 205

Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp Pro  
210 215 220

Thr Phe Pro Ala Asp Thr Trp Gly Thr Tyr Leu Leu Thr Thr Glu Thr  
225 230 235 240

Gly Leu Gln Lys Asp His Ala Leu Trp Asp His Thr Ala Gln Asn Leu  
245 250 255

Leu Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp Phe  
260 265 270

Leu Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala Ser  
275 280 285

Arg Ala Ser Thr Trp Glu Gly Arg Arg Arg Leu Asn Thr Gln Thr Leu  
290 295 300

<210> 7  
<211> 287  
<212> PRT  
<213> homo sapiens

<300>  
<308> NCBI/CAA06872  
<309> 1998-09-22  
<313> (1)..(287)

<400> 7

Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser  
1 5 10 15

Gln Arg Ile Ser Ala Gln Gln Gln Thr Leu Pro Lys Pro Phe Ile Trp  
20 25 30

Ala Glu Pro His Phe Met Val Pro Lys Glu Lys Gln Val Thr Ile Cys  
35 40 45

Cys Gln Gly Asn Tyr Gly Ala Val Glu Tyr Gln Leu His Phe Glu Gly  
50 55 60

Ser Leu Phe Ala Val Asp Arg Pro Lys Pro Pro Glu Arg Ile Asn Lys  
65 70 75 80

Val Lys Phe Tyr Ile Pro Asp Met Asn Ser Arg Met Ala Gly Gln Tyr  
85 90 95

Ser Cys Ile Tyr Arg Val Gly Glu Leu Trp Ser Glu Pro Ser Asn Leu  
100 105 110

Leu Asp Leu Val Val Thr Glu Met Tyr Asp Thr Pro Thr Leu Ser Val  
115 120 125

His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr Cys  
130 135 140

Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly Arg  
145 150 155 160

Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe Pro  
165 170 175

Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe Gly  
180 185 190

Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys Leu  
195 200 205

Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp Pro  
210 215 220

Thr Phe Pro Asp His Ala Leu Trp Asp His Thr Ala Gln Asn Leu Leu  
225 230 235 240

Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp Phe Leu  
245 250 255

Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala Ser Arg  
260 265 270

Ala Ser Thr Trp Glu Gly Arg Arg Arg Leu Asn Thr Gln Thr Leu  
275 280 285

<210> 8  
<211> 209  
<212> PRT  
<213> homo sapiens

<300>  
<308> NCBI/CAA06873  
<309> 1998-09-22  
<313> (1)..(209)

<400> ..8.

Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser  
1 5 10 15

Gln Arg Ile Ser Ala Gln Gln Gln Met Tyr Asp Thr Pro Thr Leu Ser  
20 25 30

Val His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr  
 35 40 45  
 Cys Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly  
 50 55 60  
 Arg Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe  
 65 70 75 80  
 Pro Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe  
 85 90 95  
 Gly Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys  
 100 105 110  
 Leu Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp  
 115 120 125  
 Pro Thr Phe Pro Ala Asp Thr Trp Gly Thr Tyr Leu Leu Thr Thr Glu  
 130 135 140  
 Thr Gly Leu Gln Lys Asp His Ala Leu Trp Asp His Thr Ala Gln Asn  
 145 150 155 160  
 Leu Leu Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp  
 165 170 175  
 Phe Leu Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala  
 180 185 190  
 Ser Arg Ala Ser Thr Trp Glu Gly Arg Arg Arg Leu Asn Thr Gln Thr  
 195 200 205

Leu

<210> 9  
 <211> 192  
 <212> PRT  
 <213> homo sapiens

<300>  
 <308> NCBI/CAA06874  
 <309> 1998-09-22  
 <313> (1)..(192)

<400> 9

Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser  
 1 5 10 15

Gln Arg Ile Ser Ala Gln Gln Gln Met Tyr Asp Thr Pro Thr Leu Ser  
 20 25 30

Val His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr  
35 40 45

Cys Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly  
50 55 60

Arg Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe  
65 70 75 80

Pro Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe  
85 90 95

Gly Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys  
100 105 110

Leu Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp  
115 120 125

Pro Thr Phe Pro Asp His Ala Leu Trp Asp His Thr Ala Gln Asn Leu  
130 135 140

Leu Arg Met Gly Leu Ala Phe Leu Val Leu Val Ala Leu Val Trp Phe  
145 150 155 160

Leu Val Glu Asp Trp Leu Ser Arg Lys Arg Thr Arg Glu Arg Ala Ser  
165 170 175

Arg Ala Ser Thr Trp Glu Gly Arg Arg Arg Leu Asn Thr Gln Thr Leu  
180 185 190

<210> 10  
<211> 488  
<212> PRT  
<213> artificial

<220>  
<223> conjugate of leader peptide, D1 and D2 domains of NKp46 with Fc domain

<400> 10

Met Ser Ser Thr Leu Pro Ala Leu Leu Cys Val Gly Leu Cys Leu Ser  
1 5 10 15

Gln Arg Ile Ser Ala Gln Gln Gln Thr Leu Pro Lys Pro Phe Ile Trp  
20 25 30

Ala Glu Pro His Phe Met Val Pro Lys Glu Lys Gln Val Thr Ile Cys  
35 40 45

Cys Gln Gly Asn Tyr Gly Ala Val Glu Tyr Gln Leu His Phe Glu Gly  
50 55 60

Ser Leu Phe Ala Val Asp Arg Pro Lys Pro Pro Glu Arg Ile Asn Lys  
 65 70 75 80  
 Val Lys Phe Tyr Ile Pro Asp Met Asn Ser Arg Met Ala Gly Gln Tyr  
 85 90 95  
 Ser Cys Ile Tyr Arg Val Gly Glu Leu Trp Ser Glu Pro Ser Asn Leu  
 100 105 110  
 Leu Asp Leu Val Val Thr Glu Met Tyr Asp Thr Pro Thr Leu Ser Val  
 115 120 125  
 His Pro Gly Pro Glu Val Ile Ser Gly Glu Lys Val Thr Phe Tyr Cys  
 130 135 140  
 Arg Leu Asp Thr Ala Thr Ser Met Phe Leu Leu Leu Lys Glu Gly Arg  
 145 150 155 160  
 Ser Ser His Val Gln Arg Gly Tyr Gly Lys Val Gln Ala Glu Phe Pro  
 165 170 175  
 Leu Gly Pro Val Thr Thr Ala His Arg Gly Thr Tyr Arg Cys Phe Gly  
 180 185 190  
 Ser Tyr Asn Asn His Ala Trp Ser Phe Pro Ser Glu Pro Val Lys Leu  
 195 200 205  
 Leu Val Thr Gly Asp Ile Glu Asn Thr Ser Leu Ala Pro Glu Asp Pro  
 210 215 220  
 Thr Phe Pro Ala Asp Thr Trp Gly Thr Tyr Leu Leu Thr Thr Glu Thr  
 225 230 235 240  
 Gly Leu Gln Lys Asp His Ala Leu Trp Asp His Thr Ala Gln Asp Pro  
 245 250 255  
 Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala  
 260 265 270  
 Pro Glu Phe Glu Gly Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro  
 275 280 285  
 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val  
 290 295 300  
 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val  
 305 310 315 320  
 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln  
 325 330 335



Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln  
 340 345 350

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala  
 355 360 365

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro  
 370 375 380

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr  
 385 390 395 400

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser  
 405 410 415

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr  
 420 425 430

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr  
 435 440 445

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe  
 450 455 460

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys  
 465 470 475 480

Ser Leu Ser Leu Ser Pro Gly Lys  
 485

<210> 11  
 <211> 364  
 <212> PRT  
 <213> artificial

<220>  
 <223> conjugate of CD5 leader peptide and D1 of Nkp46 with Fc domain

<400> 11

Met Gly Met Pro Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu  
 1 5 10 15

Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Gln  
 20 25 30

Gln Gln Thr Leu Pro Lys Pro Phe Ile Trp Ala Glu Pro His Phe Met  
 35 40 45

Val Pro Lys Glu Lys Gln Val Thr Ile Cys Cys Gln Gly Asn Tyr Gly  
 50 55 60

Ala Val Glu Tyr Gln Leu His Phe Glu Gly Ser Leu Phe Ala Val Asp  
 65 70 75 80

Arg Pro Lys Pro Pro Glu Arg Ile Asn Lys Val Lys Phe Tyr Ile Pro  
 85 90 95  
 Asp Met Asn Ser Arg Met Ala Gly Gln Tyr Ser Cys Ile Tyr Arg Val  
 100 105 110  
 Gly Glu Leu Trp Ser Glu Pro Ser Asn Leu Leu Asp Leu Val Val Thr  
 115 120 125  
 Glu Met Asp Pro Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro  
 130 135 140  
 Pro Cys Pro Ala Pro Glu Phe Glu Gly Ala Pro Ser Val Phe Leu Phe  
 145 150 155 160  
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val  
 165 170 175  
 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe  
 180 185 190  
 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro  
 195 200 205  
 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr  
 210 215 220  
 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val  
 225 230 235 240  
 Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala  
 245 250 255  
 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg  
 260 265 270  
 Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
 275 280 285  
 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro  
 290 295 300  
 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser  
 305 310 315 320  
 Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln  
 325 330 335  
 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His  
 340 345 350

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
355 360

<210> 12  
<211> 393  
<212> PRT  
<213> artificial

<220>  
<223> conjugate of CD5 leader peptide and D2 domain of NKp46 with Fc domain

<400> 12

Met Gly Met Pro Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu  
1 5 10 15

Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Tyr  
20 25 30

Asp Thr Pro Thr Leu Ser Val His Pro Gly Pro Glu Val Ile Ser Gly  
35 40 45

Glu Lys Val Thr Phe Tyr Cys Arg Leu Asp Thr Ala Thr Ser Met Phe  
50 55 60

Leu Leu Leu Lys Glu Gly Arg Ser Ser His Val Gln Arg Gly Tyr Gly  
65 70 75 80

Lys Val Gln Ala Glu Phe Pro Leu Gly Pro Val Thr Thr Ala His Arg  
85 90 95

Gly Thr Tyr Arg Cys Phe Gly Ser Tyr Asn Asn His Ala Trp Ser Phe  
100 105 110

Pro Ser Glu Pro Val Lys Leu Leu Val Thr Gly Asp Ile Glu Asn Thr  
115 120 125

Ser Leu Ala Pro Glu Asp Pro Thr Phe Pro Asp Thr Trp Gly Thr Tyr  
130 135 140

Leu Leu Thr Thr Glu Thr Gly Leu Gln Lys Asp His Ala Leu Trp Asp  
145 150 155 160

Pro Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro  
165 170 175

Ala Pro Glu Phe Glu Gly Ala Pro Ser Val Phe Leu Phe Pro Pro Lys  
180 185 190

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val  
195 200 205

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr  
210 215 220

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu  
225 230 235 240

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His  
245 250 255

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys  
260 265 270

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln  
275 280 285

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu  
290 295 300

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro  
305 310 315 320

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn  
325 330 335

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu  
340 345 350

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val  
355 360 365

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln  
370 375 380

Lys Ser Leu Ser Leu Ser Pro Gly Lys  
385 390

<210> 13  
<211> 201  
<212> PRT  
<213> homo sapiens

<300>  
<308> NCBI/AAH52582  
<309> 2004-06-30  
<313> (1)..(201)

<400> 13

Met Ala Trp Met Leu Leu Leu Ile Leu Ile Met Val His Pro Gly Ser  
1 5 10 15

Cys Ala Leu Trp Val Ser Gln Pro Pro Glu Ile Arg Thr Leu Glu Gly  
20 25 30

Ser Ser Ala Phe Leu Pro Cys Ser Phe Asn Ala Ser Gln Gly Arg Leu  
35 40 45

Ala Ile Gly Ser Val Thr Trp Phe Arg Asp Glu Val Val Pro Gly Lys  
50 55 60

Glu Val Arg Asn Gly Thr Pro Glu Phe Arg Gly Arg Leu Ala Pro Leu  
65 70 75 80

Ala Ser Ser Arg Phe Leu His Asp His Gln Ala Glu Leu His Ile Arg  
85 90 95

Asp Val Arg Gly His Asp Ala Ser Ile Tyr Val Cys Arg Val Glu Val  
100 105 110

Leu Gly Leu Gly Val Gly Thr Gly Asn Gly Thr Arg Leu Val Val Glu  
115 120 125

Lys Glu His Pro Gln Leu Gly Ala Gly Thr Val Leu Leu Leu Arg Ala  
130 135 140

Gly Phe Tyr Ala Val Ser Phe Leu Ser Val Ala Val Gly Ser Thr Val  
145 150 155 160

Tyr Tyr Gln Gly Lys Cys Leu Thr Trp Lys Gly Pro Arg Arg Gln Leu  
165 170 175

Pro Ala Val Val Pro Ala Pro Leu Pro Pro Pro Cys Gly Ser Ser Ala  
180 185 190

His Leu Leu Pro Pro Val Pro Gly Gly  
195 200

<210> 14  
<211> 382  
<212> PRT  
<213> artificial

<220>  
<223> conjugate of CD5 leader peptide and D (Ig-like )domain of Nkp30  
with Fc domain

<400> 14

Met Gly Met Pro Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu  
1 5 10 15

Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Leu  
20 25 30

Trp Val Ser Gln Pro Leu Glu Ile Arg Thr Leu Glu Gly Ser Ser Ala  
35 40 45

Phe Leu Pro Cys Ser Phe Asn Ala Ser Gln Gly Arg Leu Ala Ile Gly  
 50 55 60  
 Ser Val Thr Trp Phe Arg Asp Glu Val Val Pro Gly Lys Glu Val Arg  
 65 70 75 80  
 Asn Gly Thr Pro Glu Phe Arg Gly Arg Leu Ala Pro Leu Ala Ser Ser  
 85 90 95  
 Arg Phe Leu His Asp His Gln Ala Glu Leu His Ile Arg Asp Val Arg  
 100 105 110  
 Gly His Asp Ala Ser Ile Tyr Val Cys Arg Val Glu Val Leu Gly Leu  
 115 120 125  
 Gly Val Gly Thr Gly Asn Gly Thr Arg Leu Val Val Glu Lys Glu His  
 130 135 140  
 Pro Gln Leu Gly Asp Pro Glu Pro Lys Ser Ser Asp Lys Thr His Thr  
 145 150 155 160  
 Cys Pro Pro Cys Pro Ala Pro Glu Phe Glu Gly Ala Pro Ser Val Phe  
 165 170 175  
 Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro  
 180 185 190  
 Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val  
 195 200 205  
 Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr  
 210 215 220  
 Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val  
 225 230 235 240  
 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys  
 245 250 255  
 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser  
 260 265 270  
 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro  
 275 280 285  
 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val  
 290 295 300  
 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly  
 305 310 315 320

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp  
325 330 335

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp  
340 345 350

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His  
355 360 365

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
370 375 380

<210> 15  
<211> 276  
<212> PRT  
<213> homo sapiens

<300>  
<308> NCBI/CAB39168  
<309> 1999-03-15  
<313> (1)..(276)

<400> 15

Met Ala Trp Arg Ala Leu His Pro Leu Leu Leu Leu Leu Leu Phe  
1 5 10 15

Pro Gly Ser Gln Ala Gln Ser Lys Ala Gln Val Leu Gln Ser Val Ala  
20 25 30

Gly Gln Thr Leu Thr Val Arg Cys Gln Tyr Pro Pro Thr Gly Ser Leu  
35 40 45

Tyr Glu Lys Lys Gly Trp Cys Lys Glu Ala Ser Ala Leu Val Cys Ile  
50 55 60

Arg Leu Val Thr Ser Ser Lys Pro Arg Thr Met Ala Trp Thr Ser Arg  
65 70 75 80

Phe Thr Ile Trp Asp Asp Pro Asp Ala Gly Phe Phe Thr Val Thr Met  
85 90 95

Thr Asp Leu Arg Glu Glu Asp Ser Gly His Tyr Trp Cys Arg Ile Tyr  
100 105 110

Arg Pro Ser Asp Asn Ser Val Ser Lys Ser Val Arg Phe Tyr Leu Val  
115 120 125

Val Ser Pro Ala Ser Ala Ser Thr Gln Thr Pro Trp Thr Pro Arg Asp  
130 135 140

Leu Val Ser Ser Gln Thr Gln Thr Gln Ser Cys Val Pro Pro Thr Ala  
145 150 155 160

Gly Ala Arg Gln Ala Pro Glu Ser Pro Ser Thr Ile Pro Val Pro Ser  
 165 170 175  
 Gln Pro Gln Asn Ser Thr Leu Arg Pro Gly Pro Ala Ala Pro Ile Ala  
 180 185 190  
 Leu Val Pro Val Phe Cys Gly Leu Leu Val Ala Lys Ser Leu Val Leu  
 195 200 205  
 Ser Ala Leu Leu Val Trp Trp Gly Asp Ile Trp Trp Lys Thr Val Met  
 210 215 220  
 Glu Leu Arg Ser Leu Asp Thr Gln Lys Ala Thr Cys His Leu Gln Gln  
 225 230 235 240  
 Val Thr Asp Leu Pro Trp Thr Ser Val Ser Ser Pro Val Glu Arg Glu  
 245 250 255  
 Ile Leu Tyr His Thr Val Ala Arg Thr Lys Ile Ser Asp Asp Asp Asp  
 260 265 270  
 Glu His Thr Leu  
 275

<210> 16  
 <211> 434  
 <212> PRT  
 <213> artificial

<220>  
 <223> conjugate of leader peptide, DS and DL domains of NKp44 with Fc domain

<400> 16

Met Gly Met Pro Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu  
 1 5 10 15  
 Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Gln  
 20 25 30  
 Ser Lys Ala Gln Val Leu Gln Ser Val Ala Gly Gln Thr Leu Thr Val  
 35 40 45  
 Arg Cys Gln Tyr Pro Pro Thr Gly Ser Leu Tyr Glu Lys Lys Gly Trp  
 50 55 60  
 Cys Lys Glu Ala Ser Ala Leu Val Cys Ile Arg Leu Val Thr Ser Ser  
 65 70 75 80  
 Lys Pro Arg Thr Val Ala Trp Thr Ser Arg Phe Thr Ile Trp Asp Asp  
 85 90 95  
 Pro Asp Ala Gly Phe Phe Thr Val Thr Met Thr Asp Leu Arg Glu Glu



100	105	110
Asp Ser Gly His Tyr Trp Cys Arg Ile Tyr Arg Pro Ser Asp Asn Ser	115	120 125
Val Ser Lys Ser Val Arg Phe Tyr Leu Val Val Ser Pro Ala Ser Ala	130	135 140
Ser Thr Gln Thr Ser Trp Thr Pro Arg Asp Leu Val Ser Ser Gln Thr	145	150 155 160
Gln Thr Gln Ser Cys Val Pro Pro Thr Ala Gly Ala Arg Gln Ala Pro	165	170 175
Glu Ser Pro Ser Thr Ile Pro Val Pro Ser Gln Pro Gln Asn Ser Thr	180	185 190
Leu Arg Pro Gly Pro Ala Ala Pro Asp Pro Glu Pro Lys Ser Ser Asp	195	200 205
Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Phe Glu Gly Ala	210	215 220
Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile	225	230 235 240
Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu	245	250 255
Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His	260	265 270
Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg	275	280 285
Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys	290	295 300
Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu	305	310 315 320
Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr	325	330 335
Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu	340	345 350
Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp	355	360 365
Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val		

370

375

380

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp  
 385 390 395 400

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His  
 405 410 415

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro  
 420 425 430

Gly Lys

<210> 17  
 <211> 326  
 <212> PRT  
 <213> artificial

<220>  
 <223> conjugate of CD5 leader peptide and DS domain of NKP44 with Fc domain

&lt;400&gt; 17

Met Gly Met Pro Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu  
 1 5 10 15

Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Ser  
 20 25 30

Pro Ala Ser Ala Ser Thr Gln Thr Ser Trp Thr Pro Arg Asp Leu Val  
 35 40 45

Ser Ser Gln Thr Gln Thr Gln Ser Cys Val Pro Pro Thr Ala Gly Ala  
 50 55 60

Arg Gln Ala Pro Glu Ser Pro Ser Thr Ile Pro Val Pro Ser Gln Pro  
 65 70 75 80

Gln Asn Ser Thr Leu Arg Pro Gly Pro Ala Ala Pro Asp Pro Glu Pro  
 85 90 95

Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
 100 105 110

Phe Glu Gly Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp  
 115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp  
 130 135 140

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly  
 145 150 155 160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn  
 165 170 175  
 Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp  
 180 185 190  
 Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro  
 195 200 205  
 Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu  
 210 215 220  
 Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn  
 225 230 235 240  
 Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile  
 245 250 255  
 Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr  
 260 265 270  
 Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys  
 275 280 285  
 Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys  
 290 295 300  
 Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu  
 305 310 315 320  
 Ser Leu Ser Pro Gly Lys  
 325

<210> 18  
 <211> 376  
 <212> PRT  
 <213> artificial

<220>  
 <223> conjugate of leader peptide, and DL domain of Nkp44 with Fc domain  
 <400> 18

Met Gly Met Pro Met Gly Ser Phe Gln Pro Leu Ala Thr Leu Tyr Leu  
 1 5 10 15  
 Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Gln  
 20 25 30  
 Ser Lys Ala Gln Val Leu Gln Ser Val Ala Gly Gln Thr Leu Thr Val  
 35 40 45

Arg Cys Gln Tyr Pro Pro Thr Gly Ser Leu Tyr Glu Lys Lys Gly Trp  
 50 55 60  
 Cys Lys Glu Ala Ser Ala Leu Val Cys Ile Arg Leu Val Thr Ser Ser  
 65 70 75 80  
 Lys Pro Arg Thr Val Ala Trp Thr Ser Arg Phe Thr Ile Trp Asp Asp  
 85 90 95  
 Pro Asp Ala Gly Phe Phe Thr Val Thr Met Thr Asp Leu Arg Glu Glu  
 100 105 110  
 Asp Ser Gly His Tyr Trp Cys Arg Ile Tyr Arg Pro Ser Asp Asn Ser  
 115 120 125  
 Val Ser Lys Ser Val Arg Phe Tyr Leu Val Val Ser Pro Ala Asp Pro  
 130 135 140  
 Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala  
 145 150 155 160  
 Pro Glu Phe Glu Gly Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro  
 165 170 175  
 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val  
 180 185 190  
 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val  
 195 200 205  
 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln  
 210 215 220  
 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln  
 225 230 235 240  
 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala  
 245 250 255  
 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro  
 260 265 270  
 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr  
 275 280 285  
 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser  
 290 295 300  
 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr  
 305 310 315 320

Lys Thr Thr Pro<sub>325</sub> Val Leu Asp Ser<sub>330</sub> Asp Gly Ser Phe Phe Leu<sub>335</sub> Tyr

Ser Lys Leu Thr<sub>340</sub> Val Asp Lys Ser<sub>345</sub> Arg Trp Gln Gln Gly<sub>350</sub> Asn Val Phe

Ser Cys Ser<sub>355</sub> Val Met His Glu<sub>360</sub> Ala Leu His Asn His<sub>365</sub> Tyr Thr Gln Lys

Ser Leu<sub>370</sub> Ser Leu Ser Pro Gly<sub>375</sub> Lys

<210> 19  
 <211> 914  
 <212> DNA  
 <213> homo sapiens

<300>  
 <308> NCBI/AJ001383  
 <309> 1998-09-22  
 <313> (1)..(914)

<400> 19  
 tgtcttccac actccctgcc ctgctctgcg tcgggctgtg tctgagtcag aggatcagcg 60  
 cccagcagca gactctccca aaaccgttca tctggggccga gccccatttc atggttccaa 120  
 aggaaaagca agtgaccatc tggtgccagg gaaattatgg ggctgttgaa taccagctgc 180  
 actttgaagg aagccttttt gccgtggaca gacaaaaacc ccctgagcgg attaacaaag 240  
 tcaaattcta catcccgga atgaactccc gcatggcagg gcaatacagc tgcattctatc 300  
 ggggttgggga gctctggtca gagcccagca acttgctgga tctggtggta acagaaatgt 360  
 atgacacacc caccctctcg gttcatcctg gacccgaagt gatctcggga gagaagggtga 420  
 ccttctactg ccgtctagac actgcaacaa gcatgttctt actgctcaag gaggggaagat 480  
 ccagccacgt acagcgcgga tacgggaagg tccaggcgga gttccccctg ggccctgtga 540  
 ccacagccca ccgagggaca taccgatgtt ttggctccta taacaaccat gcctggtctt 600  
 tccccagtga gccagtgaag ctcttggtca caggcgacat tgagaacacc agccttgac 660  
 ctgaagaccc cacctttcct gcagacactt ggggcaccta ccttttaacc acagagacgg 720  
 gactccagaa agaccatgcc ctctgggatc acactgccca gaatctcctt cggatgggcc 780  
 tggcctttct agtcctggtg gctctagtgt ggttcctggt tgaagactgg ctcagcagga 840  
 agaggactag agagcgagcc agcagagctt ccacttggga aggcaggaga aggctgaaca 900  
 cacagactct ttga 914

<210> 20  
 <211> 1506  
 <212> DNA  
 <213> artificial

<220>  
 <223> DNA sequence of conjugate of leader peptide, D1 AND D2 domains of  
 NKp46 with Fc domain (SEQ ID NO:9)

```

<400> 20
tccccactgc tcagcactta ggccggcaga atctgagcga tgtcttccac actccctgcc      60
ctgctctgcg tcgggctgtg tctgagtcag aggatcagcg cccagcagca gactctccca      120
aaaccgttca tctgggccga gccccatttc atggttccaa aggaaaagca agtgaccatc      180
tgttgccagg gaaattatgg ggctgttgaa taccagctgc actttgaagg aagccttttt      240
gccgtggaca gaccaaacc ccctgagcgg attaacaaag tcaaattcta catcccggac      300
atgaactccc gcatggcagg gcaatacagc tgcattctatc gggttgggga gctctggtca      360
gagcccagca acttgctgga tctggtggta acagaaatgt atgacacacc caccctctcg      420
gttcatcctg gacccgaagt gatctcggga gagaaggtga ccttctactg ccgtctagac      480
actgcaacaa gcatgttctt actgctcaag gagggaagat ccagccacgt acagcgcgga      540
tacgggaagg tccaggcgga gttccccctg ggccctgtga ccacagccca ccgagggaca      600
taccgatgtt ttggctccta taacaaccat gcctggtctt tccccagtga gccagtgaag      660
ctcctggtca caggcgacat tgagaacacc agccttgacac ctgaagaccc cacctttcct      720
gcagacactt ggggcaccta ccttttaacc acagagacgg gactccagaa agaccatgcc      780
ctctgggatc acactgcccc ggatccggag cccaaatctt ctgacaaaac tcacacatgc      840
ccaccgtgcc cagcacctga attcgagggg gcaccgtcag tcttcctctt cccccaaaa      900
cccaaggaca ccctcatgat ctcccggacc cctgaggtca catgcgtggt ggtggacgtg      960
agccacgaag accctgaggt caagttcaac tggtagctgg acggcgtgga ggtgcataat     1020
gccaagacaa agccgcggga ggagcagtac aacagcacgt accgtgtggt cagcgtcctc     1080
accgtcctgc accaggactg gctgaatggc aaggagtaca agtgcaaggt ctccaacaaa     1140
gccctcccag ccccatcga gaaaaccatc tccaaagcca aagggcagcc ccgagagcca     1200
caggtgtaca ccctgcccc atcccgggat gagctgacca agaaccaggt cagcctgacc     1260
tgcctggtca aaggcttcta tcccagcgac atcgccgtgg agtgggagag caatgggcag     1320
ccggagaaca actacaagac cagcctccc gtgctggact ccgacggctc cttcttcctc     1380
tacagcaagc tcaccgtgga caagagcagg tggcagcagg ggaacgtctt ctcatgctcc     1440
gtgatgcatg aggctctgca caaccactac acgcagaaga gcctctccct gtctccgggt     1500
aaatga                                           1506

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```

<210> 21
<211> 1110
<212> DNA
<213> artificial

```

```

<220>
<223> DNA encoding conjugate of CD5 leader peptide and D1 domain of
      NKP46 with Fc domain (SEQ ID NO:10)

```

```

<400> 21
aagcttgccg ccaccatggg aatgcccatt gggctctctgc aaccgctggc caccttgtag      60
ctgctgggga tgctggctgc ttctgcctc ggacgggtca gggtagccca gcagcagact      120

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```

ctcccaaac cgttcatctg ggccgagccc catttcatgg ttccaaagga aaagcaagtg      180
accatctggt gccagggaaa ttatggggct gttgaatacc agctgcactt tgaaggaagc      240
ctttttgccg tggacagacc aaaaccccct gagcgggatta acaaagtcaa attctacatc      300
ccggacatga actccccgat ggccagggcaa tacagctgca tctatcgggt tggggagctc      360
tggtcagagc ccagcaactt gctggatctg gtggtaacag aaatggatcc ggagcccaaa      420
tcttctgaca aaactcacac atgcccaccg tgcccagcac ctgaattcga ggggtgcaccg      480
tcagtcttcc tcttcccccc aaaacccaag gacaccctca tgatctcccg gacccttgag      540
gtcacatgcg tgggtgggtgga cgtgagccac gaagaccctg aggtcaagtt caactggtac      600
gtggacggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gtacaacagc      660
acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa tggcaaggag      720
tacaagtgca aggtctccaa caaagccctc ccagccccc tcgagaaaac catctccaaa      780
gccaaagggc agccccgaga gccacaggtg tacaccctgc ccccatcccg ggatgagctg      840
accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctatcccag cgacatcgcc      900
gtggagtggg agagcaatgg gcagccggag acaactaca agaccacgcc tcccgtgctg      960
gactccgacg gctccttctt cctctacagc aagctcaccg tggacaagag caggtggcag     1020
caggggaacg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacgcag     1080
aagagcctct ccctgtctcc gggtaaataa                                     1110

```

<210> 22  
 <211> 1197  
 <212> DNA  
 <213> artificial

<220>  
 <223> DNA encoding conjugate of leader peptide and D2 domain of NKP46  
 with Fc domain (SEQ ID NO:12)

```

<400> 22
aagcttgccg ccaccatggg aatgcccatt gggtctctgc aaccgctggc caccttgtag      60
ctgctgggga tgctggctgc ttcctgcctc ggacggctca gggtagcccta tgacacaccc     120
accctctcgg ttcattcctg acccgaggtg atctcgggag agaaggtgac cttctactgc     180
cgtctagaca ctgcaacaag catgttctta ctgctcaagg agggaagatc cagccacgta     240
cagcgcggat acgggaaggt ccaggcggag ttccccctgg gccctgtgac cacagcccac     300
cgagggacat accgatgttt tggctcctat aacaaccatg cctgggtcttt cccagtgag      360
ccagtgaagc tcctggtcac aggcgacatt gagaacacca gccttgacc tgaagacccc     420
acctttctcg acacttgggg cacctacctt ttaaccacag agacgggact ccagaaagac     480
catgccctct gggatccgga gcccaaattc tctgacaaaa ctcacacatg cccaccgtgc     540
ccagcacctg aattcgaggg tgaccgtca gtcttctctt tcccccaaa acccaaggac     600
accctcatga tctcccgga ccctgaggtc acatgcgtgg tggtaggacgt gagccacgaa     660

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```

gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca    720
aagccgcggg aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg    780
caccaggact ggctgaatgg caaggagtac aagtgcgaagg tctccaacaa agccctccca    840
gcccccatcg agaaaaccat ctccaaagcc aaagggcagc cccgagagcc acaggtgtac    900
accctgcccc catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc    960
aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac   1020
aactacaaga ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag   1080
ctcaccgtgg acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat   1140
gaggctctgc acaaccacta cacgcagaag agcctctccc tgtctccggg taaatga     1197

```

<210> 23  
 <211> 606  
 <212> DNA  
 <213> homo sapiens

<300>  
 <308> NCBI/BC052582  
 <309> 2004-06-30  
 <313> (1)..(606)

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<400> 23
atggcctgga tgctgttgct catcttgatc atgggccatc caggatcctg tgctctctgg    60
gtgtcccagc cccctgagat tcgtaccctg gaaggatcct ctgccttcct gccctgtctc    120
ttcaatgcca gccaaaggag actggccatt ggctccgtca cgtggttccg agatgaggtg    180
gttccaggga aggaggtgag gaatggaacc ccagagttca ggggccgcct ggccccactt    240
gcttcttccc gtttcctcca tgaccaccag gctgagctgc acatccggga cgtgcgaggc    300
catgacgcca gcatctacgt gtgcagagtg gaggtgctgg gccttggtgt cgggacaggg    360
aatgggactc ggctggtggt ggagaaagaa catcctcagc taggggctgg tacagtcctc    420
ctccttcggg ctggattcta tgctgtcagc tttctctctg tggccgtggg cagcaccgtc    480
tattaccagg gcaaatgtct gacctggaaa ggtccaagaa ggagctgcc ggctgtgggtc    540
ccagcgcccc tcccaccacc atgtgggagc tcagcacatc tgcttcccc agtcccagga    600
ggctga                                           606

```

<210> 24  
 <211> 1164  
 <212> DNA  
 <213> artificial

<220>  
 <223> DNA encoding conjugate of CD5 leader peptide, D1 and D2 domains of NKp30 with Fc domain (SEQ ID NO:13)

```

<400> 24
aagcttgccg ccaccatggg aatgcccatg gggctctctg aaccgctggc caccttgtag    60
ctgctgggga tgctggctgc ttcctgcctc ggacggctca gggtagccct ctgggtgtcc    120
cagccccttg agattcgtac cctggaaggg tcttctgcct tcctgccctg ctccttcaat    180

```



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gccagccaag ggagactggc cattggctcc gtcacgtggg tccgagatga ggtggttcca 240
gggaaggagg tgaggaatgg aaccccagag ttcagggggc gcctggcccc acttgcttct 300
tcccgtttcc tccatgacca ccaggctgag ctgcacatcc gggacgtgcg aggccatgac 360
gccagcatct acgtgtgcag agtggagggtg ctgggccttg gtgtcgggac agggaatggg 420
actcggctgg tgggtggagaa agaacatcct cagctagggg atccggagcc caaatcttct 480
gacaaaactc acacatgccc accgtgccc gacactgaat tcgagggtgc accgtcagtc 540
ttctctttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca 600
tgctgtgggg tggacgtgag ccacgaagac cctgagggtca agttcaactg gtacgtggac 660
ggcgtggagg tgcataatgc caagacaaaag ccgcggggagg agcagtacaa cagcacgtac 720
cgtgtgggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag 780
tgcaagggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa 840
gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccgggatga gctgaccaag 900
aaccagggtca gcctgacctg cctgggtcaaa ggcttctatc ccagcgacat cgccgtggag 960
tgggagagca atgggcagcc ggagaacaac tacaagacca cgctcccgt gctggactcc 1020
gacggctcct tcttctctta cagcaagctc accgtggaca agagcagggtg gcagcagggg 1080
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc 1140
ctctccctgt ctccgggtaa atga 1164

```

<210> 25  
 <211> 854  
 <212> DNA  
 <213> homo sapiens

<300>  
 <308> NCBI/AJ225109  
 <309> 1999-03-15  
 <313> (1)..(854)

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<400> 25
atggcctggc gagccctaca cccactgcta ctgctgctgc tgctgttccc aggctctcag 60
gcacaatcca aggctcagggt acttcaaagt gtggcagggc agacgctaac cgtgagatgc 120
cagtacccgc ccacgggcag tctctacgag aagaaaggct ggtgtaagga ggcttcagca 180
cttgtgtgca tcaggtagt caccagctcc aagcccagga cgatggcttg gacctctcga 240
ttcacaatct gggacgacct tgatgctggc ttcttctactg tcacatgac tgatctgaga 300
gaggaagact caggacatta ctggtgtaga atctaccgcc cttctgacaa ctctgtctct 360
aagtccgtca gattctatct ggtgggtatct ccagcctctg cctccacaca gacccctgg 420
actccccgcg acctgggtctc ttacagacc cagaccaga gctgtgtgcc tccactgca 480
ggagccagac aagccccctga gtctccatct accatccctg tcccttcaca gccacagaac 540
tccacgctcc gccctggccc tgcagcccc attgccctgg tgctgtgtt ctgtggactc 600
ctcgtagcca agagcctggg gctgtcagcc ctgctcgtct ggtgggggga catatggtgg 660

```

```

aaaaccgtga tggagctcag gagcctggat acccaaaaag ccacctgcca ccttcaacag    720
gtcacggacc ttccctggac ctacgtttcc tcacctgtag agagagaaat attatatcac    780
actgttgcaa ggactaagat aagcgatgat gatgatgaac acactttgtg aataataaaa    840
ttatctgaat gttt                                                    854

```

<210> 26  
 <211> 1320  
 <212> DNA  
 <213> artificial

<220>  
 <223> DNA encoding conjugate of leader peptide, DS and DL domains of  
 Nkp44 with Fc domain (SEQ ID NO:15)

```

<400> 26
aagcttgccg ccaccatggg aatgcccatg gggctctctgc aaccgctggc caccttgtac    60
ctgctgggga tgctggctgc ttctgcctc ggacggctca gggtagccca atccaaggct    120
caggtacttc aaagtgtggc agggcagacg ctaaccgtga gatgccagta cccgcccacg    180
ggcagtctct acgagaagaa aggctgggtgt aaggaggctt cagcacttgt gtgcatcagg    240
ttagtcacca gtcceaagcc caggacgggt gcttggacct ctcgattcac aatctgggac    300
gaccctgatg ctggcttctt cactgtcacc atgactgacg tgagagagga agactcagga    360
cattactggg tagaatcta cgcgcccttct gacaactctg tctctaagtc cgtcagattc    420
tatctgggtg tatctccagc ctctgcctcc acacagacct cctggactcc ccgcgacctg    480
gtctcttcac agaccagac ccagagctgt gtgcctccca ctgcaggagc cagacaagcc    540
cctgagtctc catctaccat ccctgtccct tcacagccac agaactccac gctccgcctt    600
ggccctgcag ccccgatcc ggagcccaaa tcttctgaca aaactcacac atgcccaccg    660
tgcccagcac ctgaattcga ggggtgcaccg tcagtcttcc tcttcccccc aaaaccgaag    720
gacaccctca tgatctcccg gacccttgag gtcacatgcg tgggtgggtgga cgtgagccac    780
gaagaccctg aggtcaagtt caactgggtac gtggacggcg tggaggtgca taatgccaaag    840
acaaagccgc gggaggagca gtacaacagc acgtaccgtg tggtcagcgt cctcaccgtc    900
ctgcaccagg actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc    960
ccagcccca tcgagaaaac catctccaaa gccaaagggc agccccgaga gccacagggtg    1020
tacaccctgc ccccatcccg ggatgagctg accaagaacc aggtcagcct gacctgcctg    1080
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag    1140
aacaactaca agaccacgcc tcccgtgctg gactccgacg gctccttctt cctctacagc    1200
aagctcaccg tggacaagag cagggtggcag caggggaacg tcttctcatg ctccgtgatg    1260
catgaggctc tgcacaacca ctacacgcag aagagcctct ccctgtctcc gggtaaataa    1320

```

<210> 27  
 <211> 996  
 <212> DNA

<213> artificial

<220>

<223> DNA encoding conjugate of CD5 leader peptide and DS domain of Nkp44 with Fc domain (SEQ ID NO:16)

<400> 27

```

aagcttgccg ccaccatggg aatgcccattg gggctctctgc aaccgctggc caccttgtag      60
ctgctgggga tgctgggtcgc ttctgcctc ggacgggtca gggtagcctc tccagcctct      120
gcctccacac agacctcctg gactccccgc gacctgggtct cttcacagac ccagacccag      180
agctgtgtgc ctcccactgc aggagccaga caagcccctg agtctccatc taccatccct      240
gtcccttcac agccacagaa ctccacgctc cgccctggcc ctgcagcccc ggatccggag      300
cccaaattctt ctgacaaaac tcacacatgc ccaccgtgcc cagcacctga attcgagggt      360
gcaccgtcag tcttctctct cccccaaaaa cccaaggaca ccctcatgat ctcccgacc      420
cctgagggtca catgctgtgt ggtggacgtg agccacgaag accctgagggt caagttcaac      480
tggtacgtgg acggcgtgga ggtgcataat gccaaagaaa agccgcggga ggagcagtac      540
aacagcacgt accgtgtgtg cagcgtcctc accgtcctgc accaggactg gctgaatggc      600
aaggagtaca agtgcaaggt ctccaacaaa gccctccag ccccatcga gaaaaccatc      660
tccaaagcca aagggcagcc ccgagagcca cagggtgtaca ccctgcccc atcccgggat      720
gagctgacca agaaccaggt cagcctgacc tgcctgggtca aaggcttcta tccagcgac      780
atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc      840
gtgctggact ccgacggctc cttcttcctc tacagcaagc tcaccgtgga caagagcagg      900
tggcagcagg ggaacgtctt ctcatgctcc gtgatgcatg aggctctgca caaccactac      960
acgcagaaga gcctctccct gtctccgggt aaatga                                996

```

<210> 28

<211> 1146

<212> DNA

<213> artificial

<220>

<223> DNA encoding conjugate of CD5 leader peptide and DL domain of Nkp44 with Fc domain (SEQ ID NO:17)

<400> 28

```

aagcttgccg ccaccatggg aatgcccattg gggctctctgc aaccgctggc caccttgtag      60
ctgctgggga tgctgggtcgc ttctgcctc ggacgggtca gggtagccca atccaaggct      120
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Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Tyr  
20 25 30

Asp Thr Pro Thr Leu Ser Val His Pro Gly Pro Glu Val Ile Ser Gly  
35 40 45

Glu Lys Val Thr Phe Tyr Cys Arg Leu Asp Thr Ala Thr Ser Met Phe  
50 55 60

Leu Leu Leu Gln Glu Gly Gln Ser Ser Gln Val Gln Gln Gly Tyr Gly  
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Lys Val Gln Ala Glu Phe Pro Leu Gly Pro Val Thr Thr Ala His Arg  
85 90 95

Gly Thr Tyr Arg Cys Phe Gly Ser Tyr Asn Asn His Ala Trp Ser Phe  
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Pro Ser Glu Pro Val Lys Leu Leu Val Thr Gly Asp Ile Glu Asn Thr  
115 120 125

Ser Leu Ala Pro Glu Asp Pro Thr Phe Pro Asp Thr Trp Gly Thr Tyr  
Page 28

130

135

140

Leu Leu Thr Thr Glu Thr Gly Leu Gln Lys Asp His Ala Leu Trp  
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<210> 30  
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Leu Gly Met Leu Val Ala Ser Cys Leu Gly Arg Leu Arg Val Pro Tyr  
 20 25 30

Asp Thr Pro Thr Leu Ser Val His Pro Gly Pro Glu Val Ile Ser Gly  
 35 40 45

Glu Lys Val Thr Phe Tyr Cys Arg Leu Asp Thr Ala Thr Ser Met Phe  
 50 55 60

Leu Leu Leu Gln Glu Gly Gln Ser Ser Gln Val Gln Gln Gly Tyr Gly  
 65 70 75 80

Thr Val Gln Ala Glu Phe Pro Leu Gly Pro Val Thr Thr Ala His Arg  
 85 90 95

Gly Thr Tyr Arg Cys Phe Gly Ser Tyr Asn Asn His Ala Trp Ser Phe  
 100 105 110

Pro Ser Glu Pro Val Lys Leu Leu Val Thr Gly Asp Ile Glu Asn Thr  
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Ser Leu Ala Pro Glu Asp Pro Thr Phe Pro Asp Thr Trp Gly Thr Tyr  
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Leu Leu Thr Thr Glu Thr Gly Leu Gln Lys Asp His Ala Leu Trp  
 145 150 155